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NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC-KRIDL-W.No.05-2016-17 Date: 26.10.2016

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Executive Engineer,** KRIDL, Bangalore.
NAME OF THE WORK	:	Improvements to Road and drains at Bellahalli in Ward no -05, Byatarayanapura sub Division, BBMP ,Bangalore.
REFERENCE	:	BBMP/EE/BTP/WO/130/2016-17Dated:24.10.2016
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	340 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.00 %	-

Note:

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 90 days from the date of testing.

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Job No.: CECTC-KRIDL-W.No.05-2016-17 Date : 26.10.2016

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency : **Executive Engineer,** KRIDL, Bangalore.
Name of Work : Improvements to Road and drains at Bellahalli in Ward no -05, Byatarayanapura sub Division, BBMP ,Bangalore.
Reference : BBMP/EE/BTP/WO/130/2016-17Dated:24.10.2016
Date of Testing : 26.10.2016
Material : Sand Total Wt. of Aggregates **1500**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	75	5.00	5.00	95.0	90-100
2.36	265	17.67	22.67	77.3	75-100
1.18	285	19.00	41.67	58.3	55-90
600 Micron	295	19.67	61.33	38.7	35-59
300 Micron	321	21.40	82.73	17.3	8-30
150 Micron	165	11.00	93.73	6.3	0-10

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Job No.: CECTC-KRIDL-W.No.05-2016-17 Date : 26.10.2016

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency : **Executive Engineer,** KRIDL, Bangalore.
Name of Work : Improvements to Road and drains at Bellahalli in Ward no -05, Byatarayanapura sub Division, BBMP ,Bangalore.
Reference : BBMP/EE/BTP/WO/130/2016-17Dated:24.10.2016
Date of Testing : 26.10.2016
Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	500	3.33	3.33	96.67	95-100
20	8312	55.41	58.75	41.25	30-70
10	3145	20.97	79.71	20.29	10-35
4.75	2415	16.10	95.81	4.19	0-5

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Job No.: CECTC-KRIDL-W.No.05-2016-17 Date : 26.10.2016

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency : **Executive Engineer,** KRIDL, Bangalore.
Name of Work : Improvements to Road and drains at Bellahalli in Ward no -05, Byatarayanapura sub Division, BBMP ,Bangalore.
Reference : BBMP/EE/BTP/WO/130/2016-17Dated:24.10.2016
Date of Testing : 26.10.2016
Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	200	4.0	4.0	96.0	95-100
10	2345	46.9	50.9	49.1	25-55
4.75	2116	42.3	93.2	6.8	0-10

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Job No.: CECTC-KRIDL-W.No.05-2016-17 Date: 28.11.2016

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP,
Agency : **Executive Engineer,** KRIDL, Bangalore.
Name of the work : Improvements to Road and drains at Bellahalli in Ward no -05, Byatarayanapura sub Division, BBMP ,Bangalore.
Reference : BBMP/EE/BTP/WO/130/2016-17Dated:24.10.2016
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.10.2016	28.11.2016	8.141	535.6	23.80
2	31.10.2016	28.11.2016	8.153	460.5	20.47
3	31.10.2016	28.11.2016	8.169	477.5	21.22

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Job No.: CECTC-KRIDL-W.No.05-2016-17 Date: 28.11.2016

TEST REPORT ON CONCRETE CUBES

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Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.10.2016	28.11.2016	8.172	486.2	21.61
2	31.10.2016	28.11.2016	8.190	492.2	21.88
3	31.10.2016	28.11.2016	8.176	520.4	23.13

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Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.10.2016	28.11.2016	8.143	470.2	20.90
2	31.10.2016	28.11.2016	8.165	480.6	21.36
3	31.10.2016	28.11.2016	8.192	516.5	22.96

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